

Product Specification

Product group : MCC

Brand name : Pharmacel®112

Article code : SAP 743842; Navision 13115-5355

Product description: Microcrystalline Cellulose

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Manufacturer : DFE Pharma India Private Limited, India

Production site : DFE Pharma India Private Limited, Cuddalore, India

Product name : Pharmacel® 112

Conforms to USP-NF, Ph. Eur., JP and IP Specifications on date of manufacture

Product description: A white or almost white, fine, crystalline or granular, slightly hygroscopic

powder having fluidity and odorless

Solubility : Practically insoluble in water, acetone, anhydrous ethanol, toluene, diethyl

ether, dilute acids and in a 50 g/L solution of Sodium hydroxide

Physical-Chemical data Specification Identification A (USP, Ph.Eur.,), 2 (JP) **Pass** Identification B (USP, Ph.Eur.,), 1 (JP) **Pass** Identification C (USP, Ph.Eur.,), 3 (JP) Max. 350 Identification C (IP) **Pass** Solubility in ammoniacal copper tetrammine **Pass** рН 5.5 - 7.0 Conductivity Max. 75 μS/cm Ether soluble substances Max. 0.05 % Water soluble substances Max. 0.20 % Heavy metals Max. 10 ppm Assay (IP) 97.0 - 102.0 % Arsenic Max. 2 ppm Starch and Dextrins (IP) **Pass** Organic impurities (IP) **Pass** Loss on Drying Max. 1.5 % Residue on ignition Max. 0.05 % **Bulk density** 0.28 - 0.34g/mL



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Microbiological data **Specification**

Total Aerobic Microbial Count Max. 100CFU/q Total Yeast and Mould Count Max. 20CFU/q Escherichia coli in 10g Negative Pseudomonas aeruginosa in 10g Negative Staphylococcus aureus in 10q Negative Salmonella species in 10q Negative Shigella species in 10g Negative

Particle Size Distribution (Airjet, Malvern)

Specification Particle size %< 32µm Max. 30.0% Particle size %< 75µm 30.0 - 55.0 % Particle size %< 250µm Min. 92.0 % Particle size D10 20 - 50 μm Particle size D50 80 - 130 µm Particle size D90 160 - 240 µm

Packaging: A white multi-layered polyethylene-aluminum bag with a polyethylene inner liner, 25Kg net.

Storage

: Keep in original, unopened packing in ambient conditions, protected from humidity and away from strongly odorous materials. The storage of Pharmacel® 112 in original special packaging ensures complete protection from moisture absorption. If the packaging is opened, we strongly recommend closing the bag by heat-sealing, when material is not fully used.

Shelf life: For storage periods exceeding 48 months, we recommend re-testing.

This document substitutes all previous versions issued for the brand names mentioned above. We trust this information, which is made up to the best of our knowledge, will be helpful to you.

Name : Dr. Bastiaan Dickhoff

Job title : Director Innovation & Technical Solutions

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Signature

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